

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
31 October 2002 (31.10.2002)

PCT

(10) International Publication Number
WO 02/085296 A3

(51) International Patent Classification⁷: **A61K 31/56**,
31/58, 31/66, 31/70, 31/665

(21) International Application Number: PCT/US02/12552

(22) International Filing Date: 22 April 2002 (22.04.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/286,139 24 April 2001 (24.04.2001) US

(71) Applicant (for all designated States except US): **EPIGENESIS PHARMACEUTICALS, INC.** [US/US]; Viviana Amzel, General Counsel, Legal Dept., 7 Clarke Drive, Cranbury, NJ 08512 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **NYCE, Jonathan, W.** [US/US]; 1 Keithwood Court, Titusville, NJ 08560 (US).

(74) Agent: **AMZEL, Viviana**; EpiGenesis Pharmaceuticals, Inc., 7 Clarke Drive, Cranbury, NJ 08512 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
3 April 2003

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITION, FORMULATIONS AND KIT FOR TREATMENT OF RESPIRATORY AND LUNG DISEASE WITH NON-GLUCOCORTICOID STEROIDS AND/OR UBIQUINONE AND A BRONCHODILATING AGENT

(57) Abstract: A pharmaceutical or veterinary composition, comprises a first active agent selected from a non-glucocorticoid steroid or analogues, a ubiquinone, or salts thereof, and a second active agent comprising a bronchodilator. The composition is provided in various formulations and in the form of a kit. The products of this patent are applied to the prophylaxis and treatment of respiratory, lung and malignant diseases.



WO 02/085296 A3

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/12552

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/56, 58, 66, 70, 665

US CL : 514/26, , 99, 102, 121, 178

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 514/26, , 99, 102, 121, 178

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
CAS ONLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,859,000 A (DOWELL et al) 12 January 1999 (12.01.1999), column 13, lines 14-20.	1-88

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

08 November 2002 (08.11.2002)

Date of mailing of the international search report

10 DEC 2002

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Authorized officer
Elli Peslev

Facsimile No. (703) 305-3250

Telephone No. 703-300-1233